EKG-PLUS II

EKG Viewer

Version 1.4

Bionet

EKG-Plus II ™ Professional – Standard Edition
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EKG-Plus II ™ Professional – Standard Edition

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Preface . . .

EKG-Plus II ™ has been designed and specially programmed for making EKG-2000(CardioCare) and EKG-3000(CardioTouch) completely operable in a network environment.

EKG-Plus II ™ has remarkable advantages as follows.

- Permanent data acquisition by saving EKG data in computer.
- You can check patient signal on the monitor and record or save it.
- Viewing format adjustment available without printing requirement.
- You can choose desired channels on the monitor.
- You can adjust sensitivity and speed immediately without printing.
- You can check analysis result and edit or write more description on it.
- You can print to a regular PC printer with your computer.
- You can save the file as JPEG format.

Enjoy using EKG-Plus II ™ software.

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Chapter 1

EKG-Plus II ™ System Requirements

The recommended environment for the operation of EKG-Plus II ™ are nicely summarized in the table below. EKG-Plus II ™ users will get better results when their system specifications exceed the recommended.

Environment	Recommended requirement
OS	Windows98 or higher
CPU	Pentium III or higher
RAM	128MB or more
Monitor	17 inch or bigger
Graphic Card & Resolution	VGA RAM 64MB or more & 1024 x 768 or higher
CD-ROM	O
Serial port	O
Network Card	Installed(100 M) & static IP required
LAN Cable	Network environment through hub : Normal LAN cable
	Direct connection with local PC : Twisted LAN cable
EKG Device Software Version	EKG-2000 : Ver4.7 or higher EKG-3000 : Ver4.2 or higher

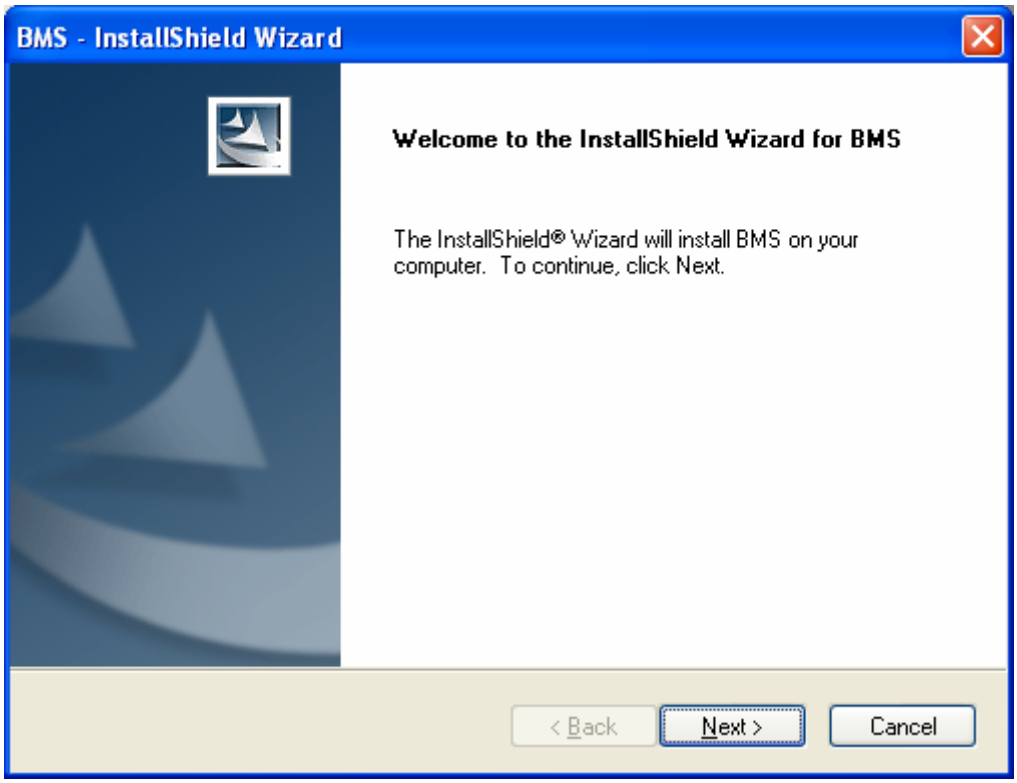
Chapter 2

EKG-Plus II ™ Installation

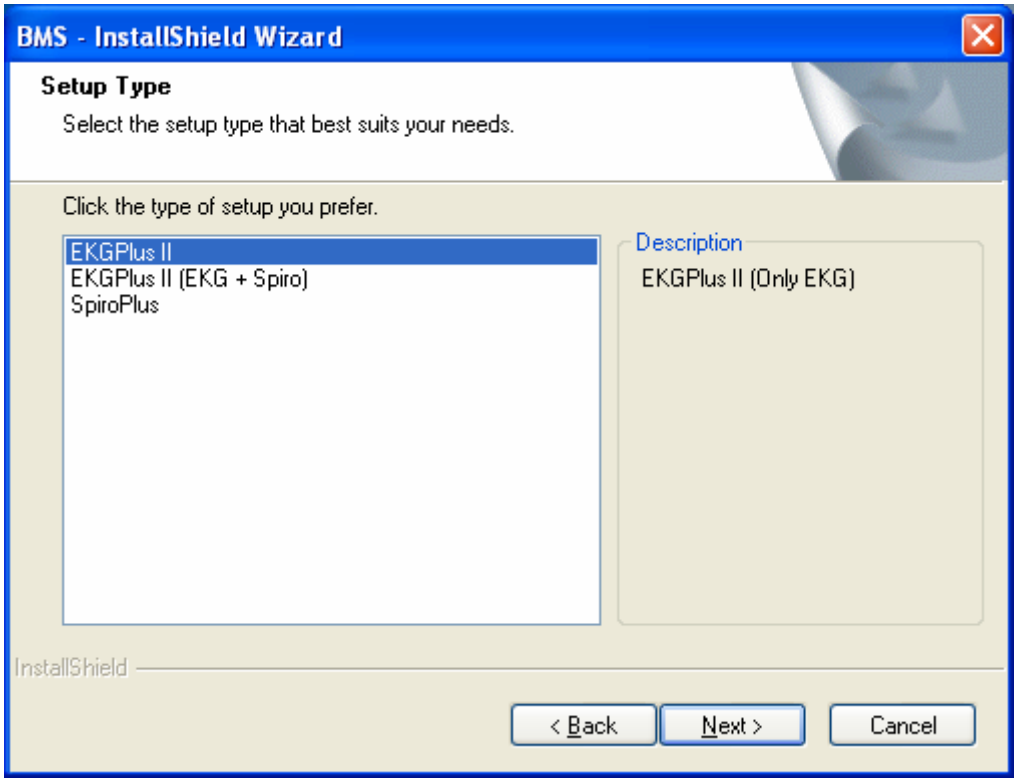
1. Close all applications before beginning installation.

2. Execute "setup.exe" under your CD-ROM drive.

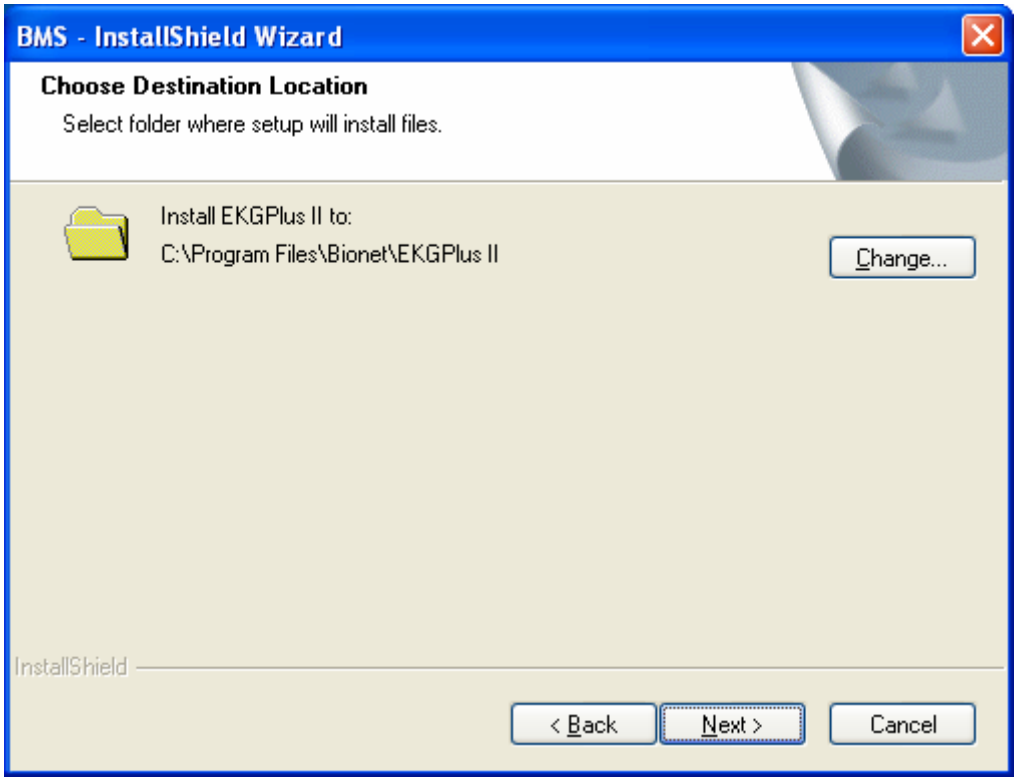
3. Follow each instruction on each step.


BMS - InstallShield Wizard
Welcome to the InstallShield Wizard for BMS
The InstallShield® Wizard will install BMS on your computer. To continue, click Next.
< Back
Next >
Cancel

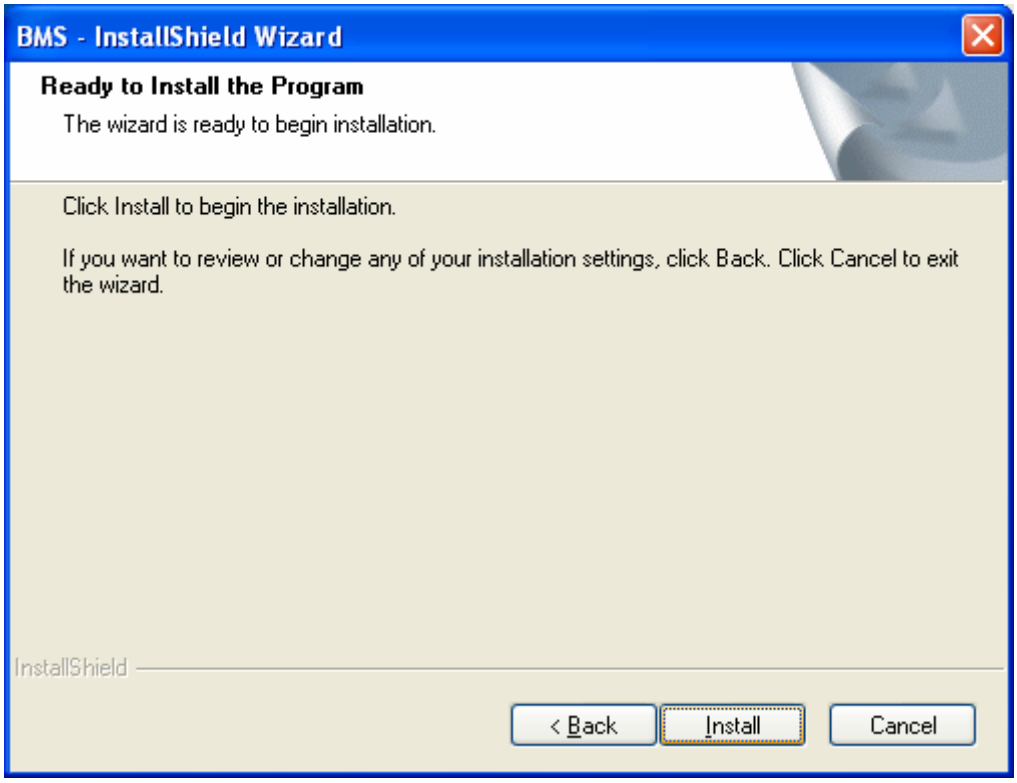
< Step 1 >


BMS - InstallShield Wizard
Setup Type
Select the setup type that best suits your needs.
Click the type of setup you prefer.
EKGPlus II
EKGPlus II (EKG + Spiro)
SpiroPlus
Description
EKGPlus II (Only EKG)
InstallShield
< Back
Next >
Cancel

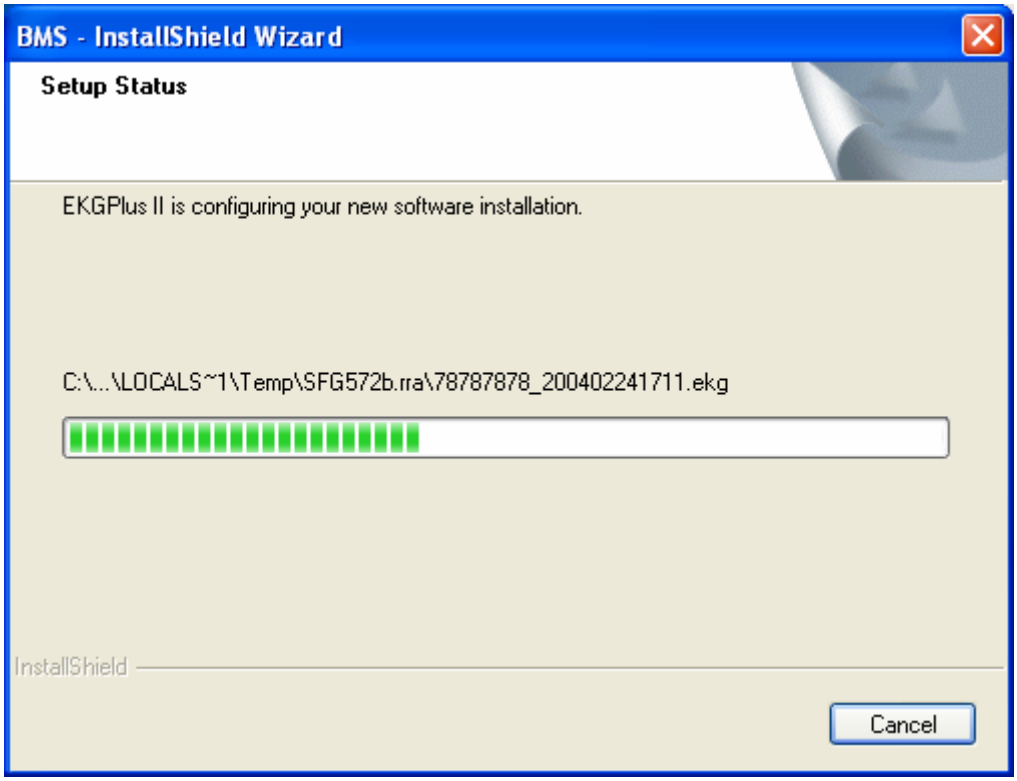
< Step 2 >


BMS - InstallShield Wizard
Choose Destination Location
Select folder where setup will install files.
Install EKGPlus II to:
C:\Program Files\Bionet\EKGPlus II
Change...
InstallShield
< Back
Next >
Cancel

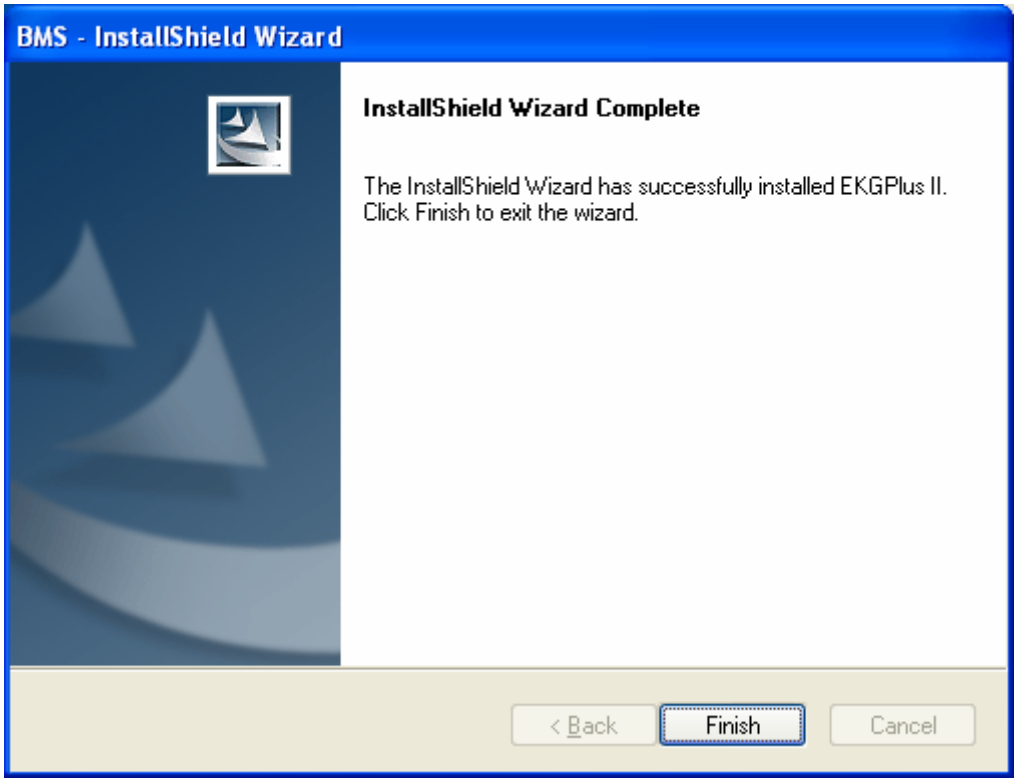
< Step 3 >


BMS - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

< Step 4 >


BMS - InstallShield Wizard
Setup Status
EKGPlus II is configuring your new software installation.
C:\...\LOCALS~1\Temp\SFG572b.rra\78787878_200402241711.ekg
InstallShield
Cancel

< Step 5 >


BMS - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed EKGPlus II. Click Finish to exit the wizard.
< Back
Finish
Cancel

< Step 6 >

Chapter 3

EKG-Plus II ™ Network Setting

1. Connection

(1) Direct connection

Use an ethernet cross-over cable to directly connect the EKG device with the computer.

(2) Peer-to Peer way (Using HUB)

Plug the EKG device directly into a network hub using a standard ethernet cable. Notice hat target folder where the data will be written must be shared(read / write).

(3) If you want to use two LAN card in one PC

If you are on a network but wish to use the direct connect method, it is recommended that you install two network cards in your computer. One for conncetion to your network and the other to communicate with the EKG device.

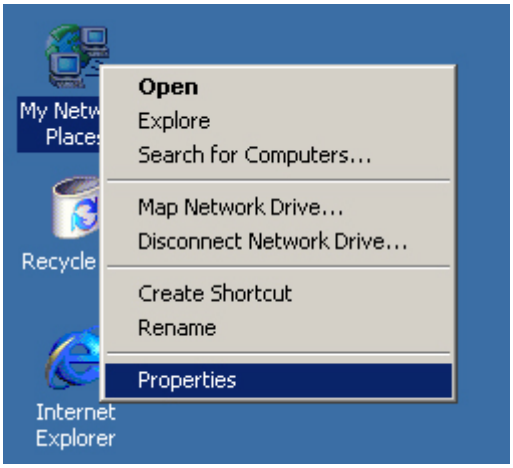
▶ Your local network administrator can give you information on which is best for your situation and how to implement it into your environment.

2. PC Setting

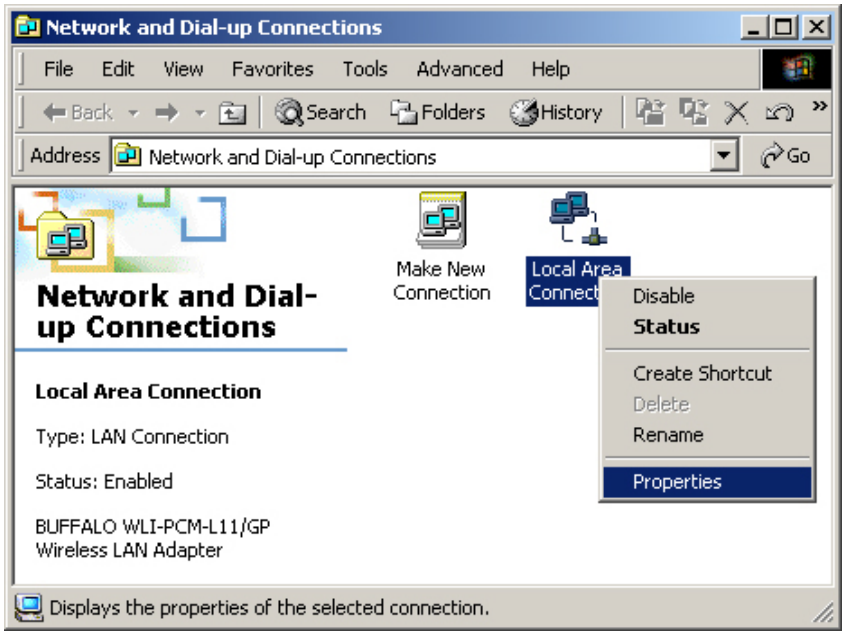
EKG-Plus II ™ software for PC Windows and EKG device(EKG-2000[CadioCare] or EKG-3000[CadioTouch]) connects together via your network. Thus, in order to run EKG-Plus II ™ users need to set up the network prior to connecting the PC with the appropriate device. In case of 'Windows 2000' (other versions will be similar), follow the step-by-step procedures outlined below to set up your network.

(1) Have the network cards ready and install them according to the procedures provided by the card manufacturer.

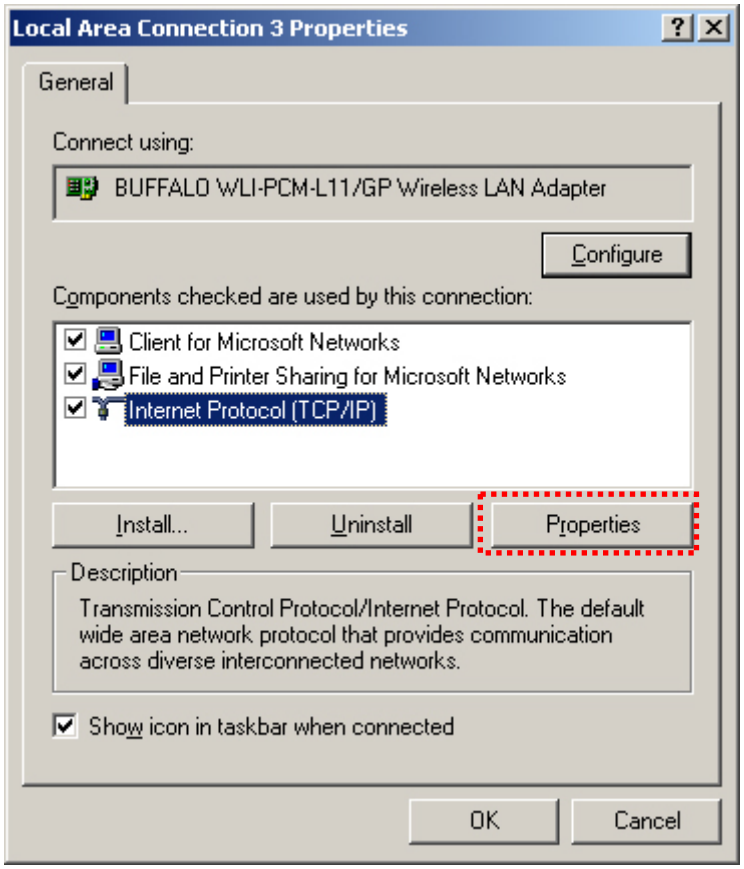
(2) Having installed, select the network icon on the desktop. Then select 'Properties' from option menu by right clicking your mouse.



(3) When you select the 'Properties', a menu option as shown below will pop up. Generally, when the setup process of 'Make new connection' and network card is done, the card will be set up as 'Local Area Connection' or 'Local Area Connection 2'. If only one card has been installed then there should be either 'Local Area Connection' or 'Local Area Connection 2' only. Select the newly installed icon and run the 'Properties' menu option by right-clicking your mouse.



(4) To set network, select 'internet protocol (TCP/IP)' option and 'Properties' option.

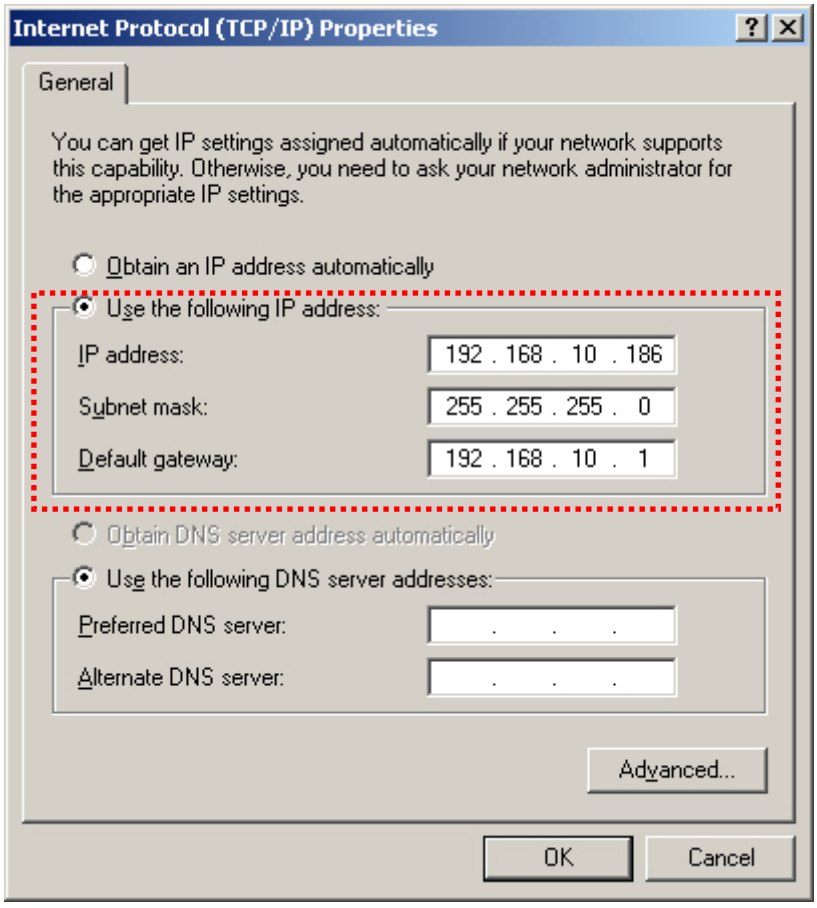


(5) If the Internet is accessed via network, or computers in hospitals are accessed through the hub, then numerical values should have been pre-input in the 'IP address (I)' area, 'Subnet mask (U)' and the 'Default gateway (D)' as below. In this case you just need to take note of the numbers assigned to IP and gateway; use the same numbers for setting up the device. It is not possible to use automatic IP allocation function based on windows system. You must allocate device's own IP address manually.

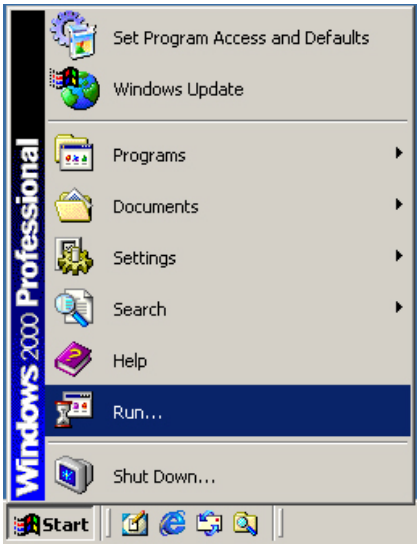
If you doing the initial setup of your network, connect the EKG device with the network as appropriate, then select the option 'Use the following IP address (S)' and input as below.

< Example >

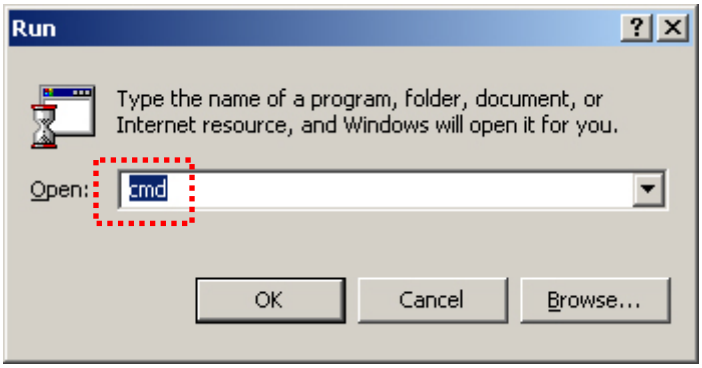
- IP address -> 192.168.10.186
- Subnet mask -> 255.255.255.0
- Default gateway -> 192,168.10.1


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 10 . 186
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
192 . 168 . 10 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

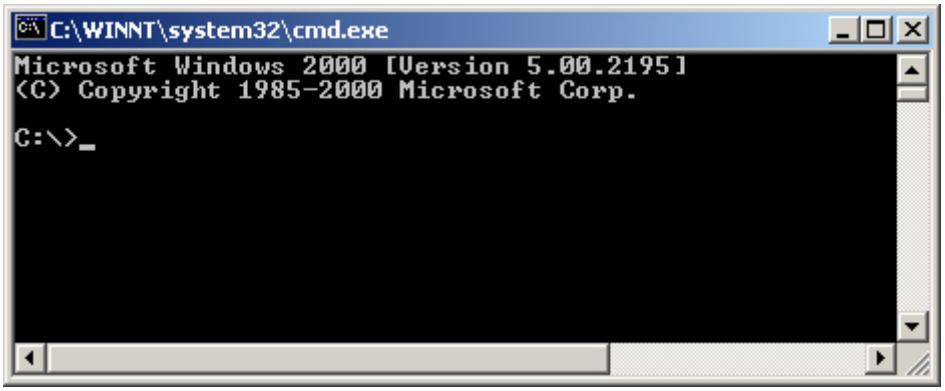
(6) When 'Windows' restarts then users need to ensure that the network has been set up correctly. There should be no problem if the network had been set up previously but if it has been newly set up then users need to click on the 'Start' button then select the 'Run' on the menu item.



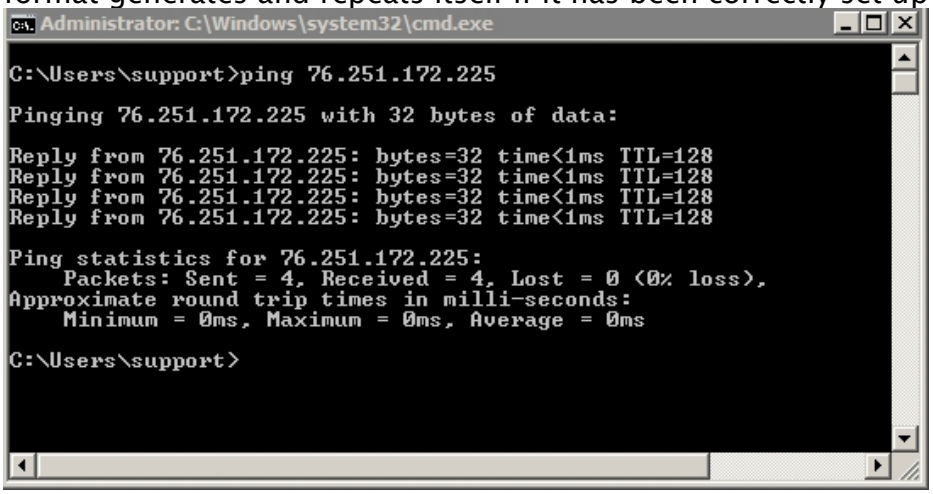
(7) Type 'cmd' and click the 'OK' button as below.



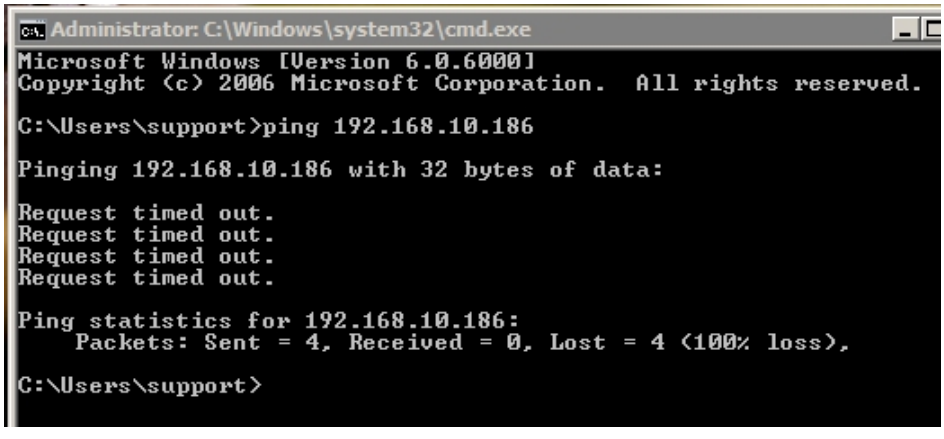
(8) If the computers are connected via hub, or the devices are set up through the hub then users can test the connection by inputting the IP address as below.



a. Success : Typing the command above a message in the following format generates and repeats itself if it has been correctly set up


Administrator: C:\Windows\system32\cmd.exe
C:\Users\support>ping 76.251.172.225
Pinging 76.251.172.225 with 32 bytes of data:
Reply from 76.251.172.225: bytes=32 time<1ms TTL=128
Reply from 76.251.172.225: bytes=32 time<1ms TTL=128
Reply from 76.251.172.225: bytes=32 time<1ms TTL=128
Reply from 76.251.172.225: bytes=32 time<1ms TTL=128
Ping statistics for 76.251.172.225:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
C:\Users\support>

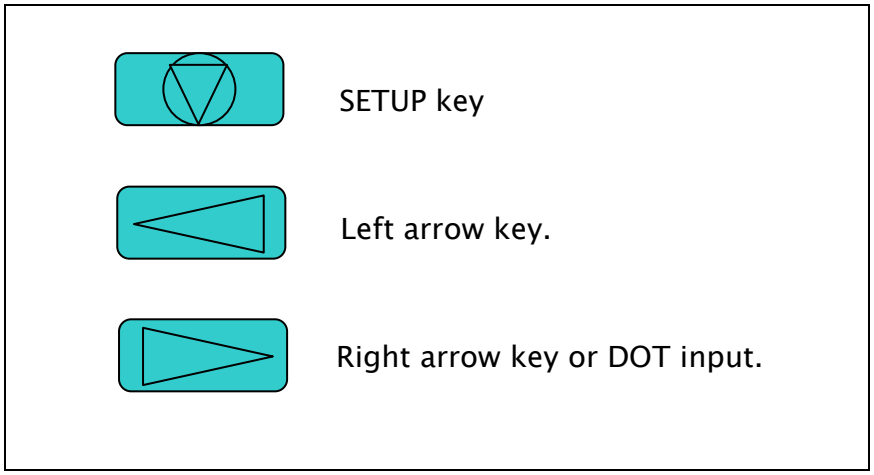
b. Error : If your computer does not perform the command above, it will generate the message in the following format. Under such circumstances you need to check the environment setting of the device, the power supply and the connection of LAN cable; restart the computer.


Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.0.6000]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.
C:\Users\support>ping 192.168.10.186
Pinging 192.168.10.186 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.10.186:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
C:\Users\support>

3. Device Setting

3.1 EKG-2000 (CadioCare)

You can use the below buttons, when you need to setup system device environment.



(1) IP setup

a. Press SETUP key.
b. Press right arrow key three times. Make 'SYS' blink.
   [PAT → FLT → PRN → SYS]
c. Press SETUP key to enter sub-menu.
d. And press right arrow key three times. Make 'IP' blink.
   [DATE → TIME → HOSP → IP]
e. Then SETUP key to activate IP setup mode
f. Input IP address with arrow & number key. If your operation environment has assigned IP address for EKG device, it is OK to input that number. Then press 'ESC' key.
   Example IP) 192.168.10.120

(2) SM [Subnet mask] setup

a. Repeat same procedure from above 'a' to 'c'.
b. Instead of making IP blinking, choose 'SM' for setup respectively.
c. Then SETUP key to activate SM setup mode
d. Refer your network setup first on this configuration and input exactly same number as your system. Input SM address with arrow & number key. Then press 'ESC' key.

Example SM) 255.255.255.0

(3) GW [Gateway] setup

a. Repeat same procedure from above 'a' to 'c'.
b. Instead of making IP blinking, choose 'GW' for setup respectively.
c. Then SETUP key to activate SM setup mode
d. Refer your network setup first on this configuration and input exactly same number as your system. Input GW address with arrow & number key. Then press 'ESC' key.

Example GW) 192.168.10.1

(4) DB [Database server IP address] setup.

a. Repeat same procedure from above 'a' to 'c'.
b. Instead of making IP blinking, choose 'DB' for setup respectively.
c. Then SETUP key to activate SM setup mode
d. This is for server IP setup where recorded data is tansferred to. If your computer and EKG device are connected directly, then input your computer IP address. Input DB address with arrow & number key. Then press 'ESC' key.

Example DB) 192.168.10.186

(5) KEY 5 function definition.

a. Repeat same procedures from above 'a' to 'c' of IP setup category.
b. Instead of making IP blinking, choose 'KEY5' for setup.
c. Please select 'DataBase'. (If you want to use external FAX function, please choose 'FAX'.) Then press 'ESC' key.

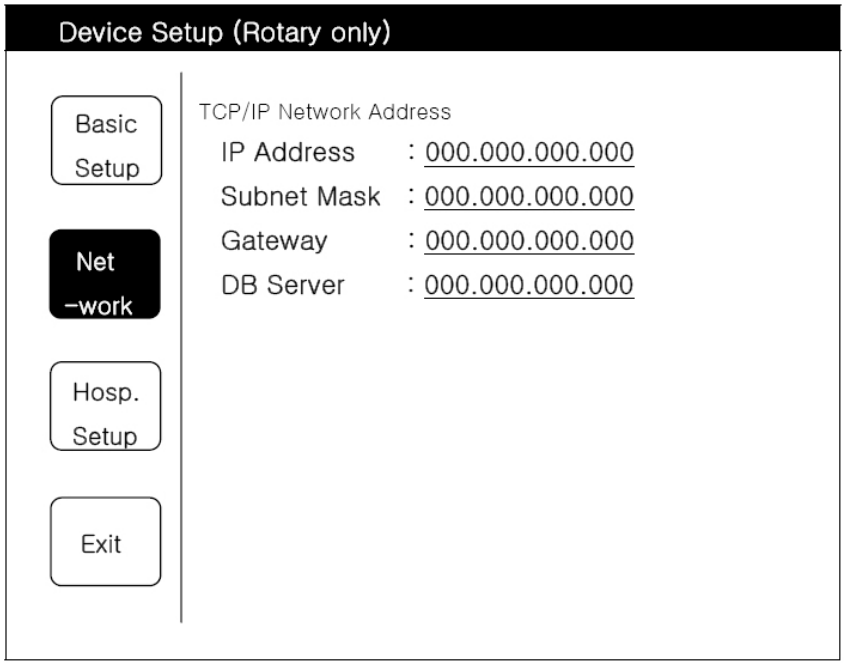
3.2 EKG-3000 (CadioTouch)

To input the network settings, locate the shadow block on the time display area(Device Setup) and press the rotary key or press with the touch pen to convert the current mode into the 'Device Setup' mode.

In 'Device Setup' mode, select 'Network Setup' and press the rotary key. You can setup network information to use the device with a LAN network.

In 'Network Setup' mode, input the IP Address, Subnet Mask, Gateway and DB Server as below using the rotary key.

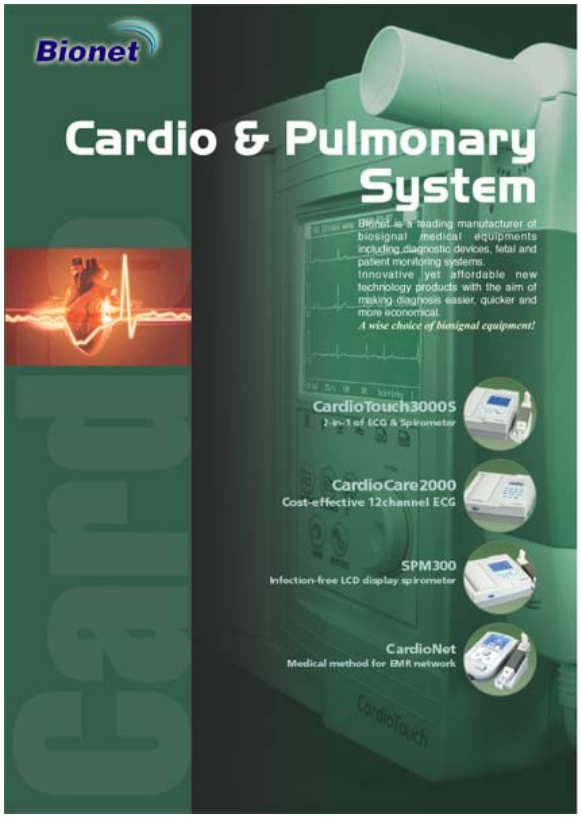
'IP Address' means the assigned IP address for EKG device and exactly input the same numbers as on your your server PC for 'Subnet Mask' and 'Gateway'. DB Server means the computer IP address where all the recorded data is to be sent. Generally, DB server means the PC where the program which can receive EKG-3000(CardioTouch) data is installed.



Chapter 4

BMS Server Program

BMS Server program enables you to store test data at a remote computer by pressing 'Net' Key on device. In this case, server will save transferred file with patient name and test date.


Bionet
Cardio & Pulmonary System
Bionet as a leading manufacturer of biosignal medical equipments including diagnostic devices, fetal and patient monitoring systems.
Innovative yet affordable new technology products with the aim of making diagnosis easier, quicker and more economical.
A wise choice of biosignal equipment!
CardioTouch3000S
2-in-1 of ECG & Spirometer
CardioCare2000
Cost-effective 12channel ECG
SPM300
Infection-free LCD display spirometer
CardioNet
Medical method for EMR network

1. Operation guide of EKG Device

1.1 Patient information input

If you want to transfer test data to desired computer, you need to input patient information in EKG device first. All other information can be edited in computer later on, but only the patient ID must be identified because this will be used to identify transferred data. For "How to input patient ID", please see operation manual of EKG-2000 or EKG-3000.

1.2 Network data transfer

In order to transfer data, you can press 'NET' key after patient ID input. When you press 'NET' key on device, you will be questioned if patient ID is correct or not.

Select "Yes" or "No" first. After Yes/No selection, device will ask you "Select EKG".

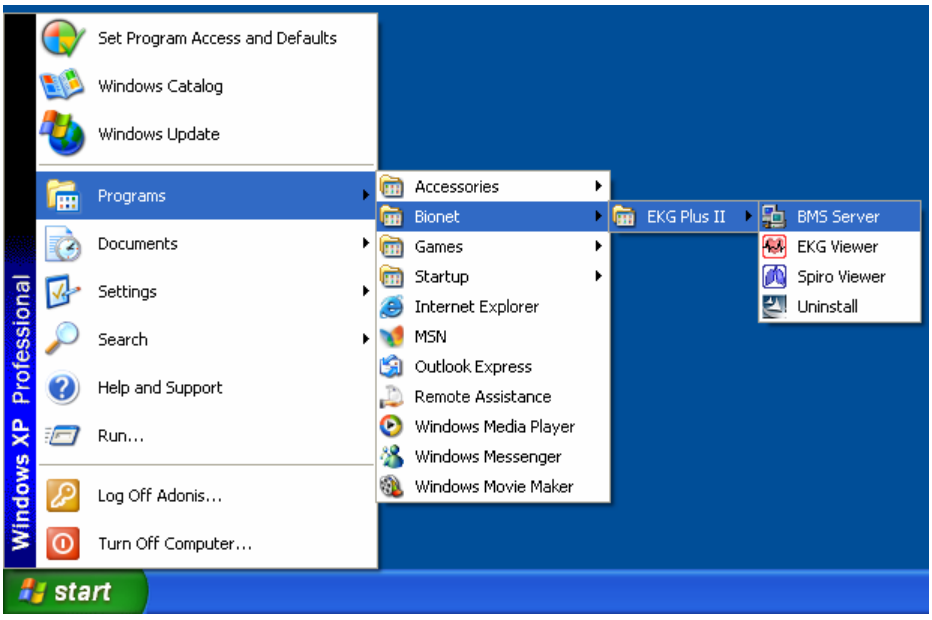
If you want to send new test data, select "NEW". If you want to send recorded data, then select "Recorded". After selection completed, device will process as below sequence.

"Recording" → "analyzing" → "Sending"

This is full procedure of data transfer to remote computer. Remote computer could be server or normal personal computer which has network card with it.

2. Start BMS Server Program

Click start and go to 'Program' -> 'Bionet' -> 'EKG Plus II' folder. And execute BMS Server program.



Also you can execute BMS Server program by clicking below icon.

After running the program, BMS Server tray icon will appear on lower right screen.

If computer begins receiving data from remote EKG device, tray icon will be changed as below picture.

3. Menu composition and description

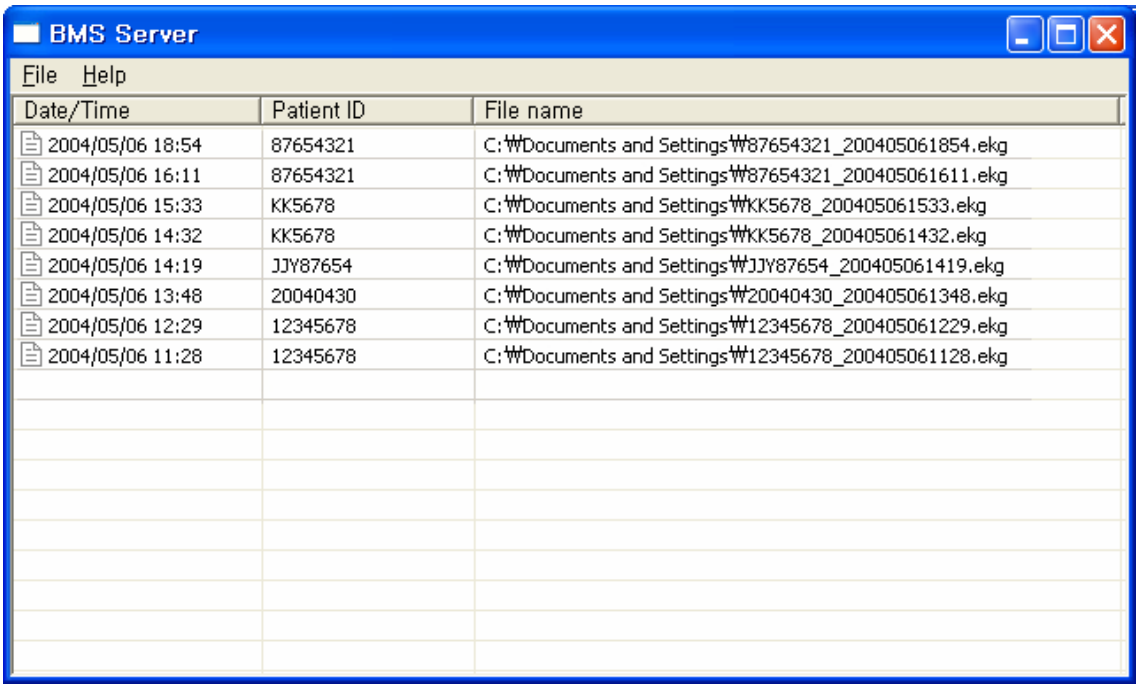
If you click BMS Server tray icon, you can see below pop up menu.

3.1 Run EKG Viewer

This enables you to start 'EKG Viewer' program directly.

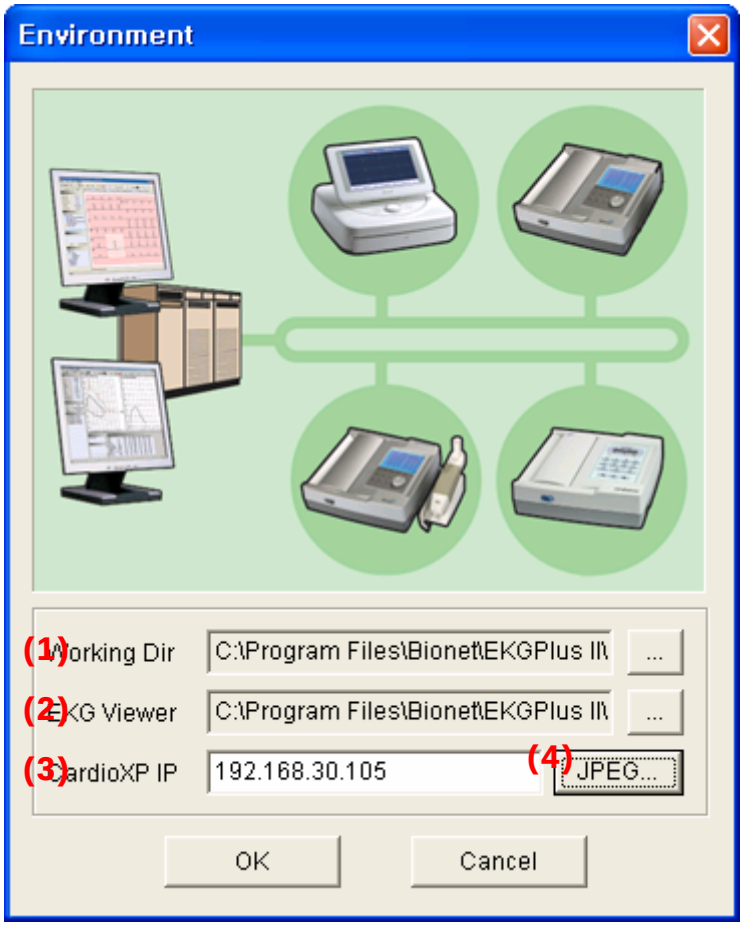
3.2 Data List

This enables you to open the list file and review the saved files.



3.3 Environment

This enables you to setup proper environment for connection with server and device. In this mode, tray icon will be changed as below picture.

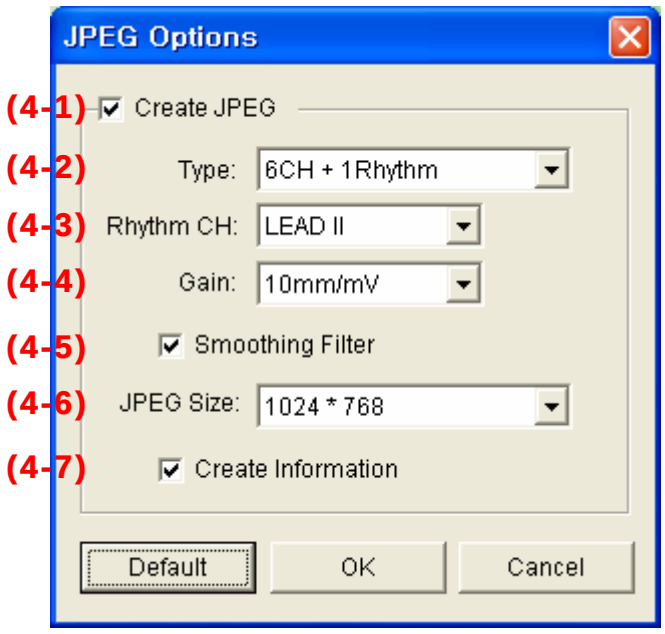


(1) Working Dir : Select working directory where you will save test files.

(2) EKG Viewer : It is recommended to make same directory as EKG-Plus II ™ working directory. This is the window where you need to link to 'EKG Viewer' execution file. If you setup this path, you can start 'EKG Viewer' program directly.

(3) CardioXP IP : set the IP of the device. To use 'Sending order' correctly, IP address should be set appropriately. (Note: this functionality is only valid with the CardioXP EKG device.)

(4) JPEG : Set the JPEG auto generation. If you push the [JPEG] button, you can setup the options as below.



4-1) Create JPEG : If you check it, the JPEG auto generation function will be enabled.

4-2) Type : Select the ECG display type, when the JPEG image was created.

4-3) Rhythm CH : If you select the [6CH+1Rhythm] or [3CH+1Rhythm], this option use to be select the rhythm channel.

4-4) Gain : Select the ECG gain value.

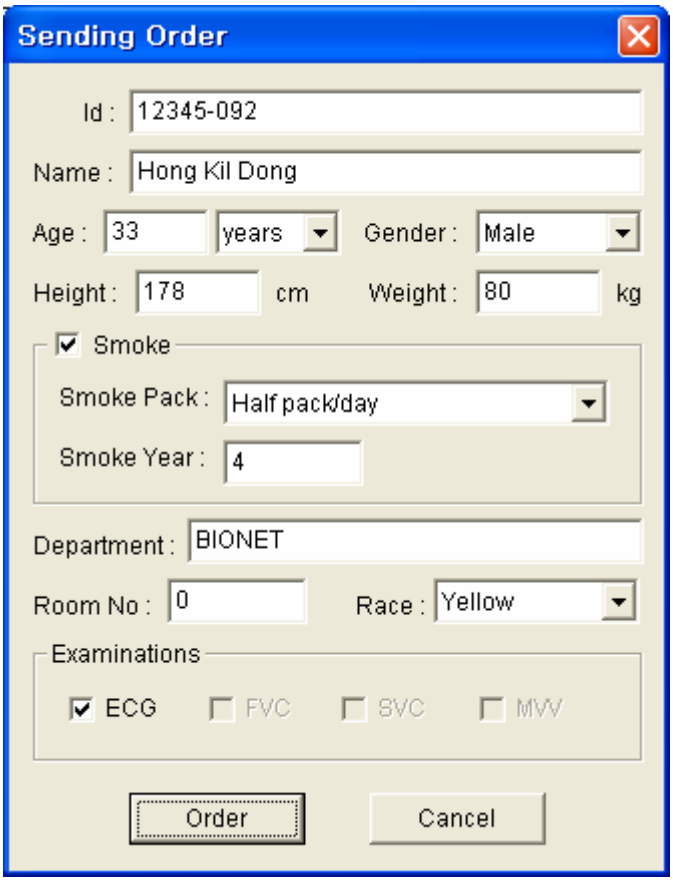
4-5) Smoothing Filter : Use the smoothing filter or not.

4-6) JPEG Size : Select the JPEG image size.

4-7) Create Information : Create the text based information file or not, when the JPEG image was created.

3.4 Sending order

This is to send the patient's information to the device.



Fill out the patient's information and click [Order] . Then, the information is transferred to the device.

* 'Sending order' is for CardioXP only.

3.5 Run Upgrade

Execute the program to upgrade EKG device firmware.

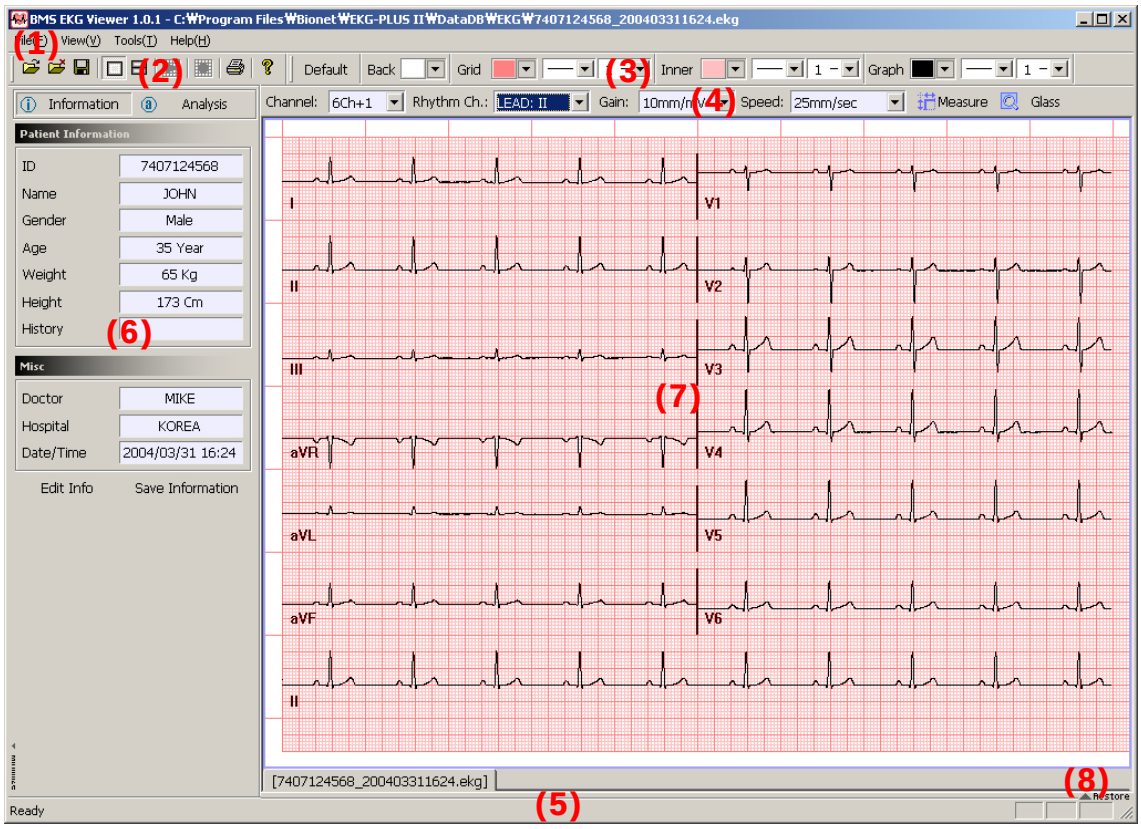
3.6 Exit

This enables you to quit the BMS Server program

Chapter 5

EKG Viewer Program

1. Main Screen



(1) Menu Bar

This is menu bar of 'EKG Viewer' Program. There are 'File', 'View', 'Tools' and 'Help' menu.

(2) Tool Bar

This is tool bar of 'EKG Viewer' Program. There are 'File Open', 'File Close', 'File Save', '1 Screen Display', '2 Screen Display', 'Monitoring Mode', 'Recording Mode', 'Print' and 'Help' Function.

(3) Color Bar

This is color bar to change the line and color of EKG graph. There are

'Default Style', 'Background Color', 'Grid Style', 'Inner Grid Style' and 'Graph Style' Function.

(4) EKG Bar

This is EKG bar to change the EKG graph viewer control. There are 'Channel', 'Rhythm Ch', 'Gain', 'Speed', 'Measure' and 'Glass' Function.

(5) Status Bar

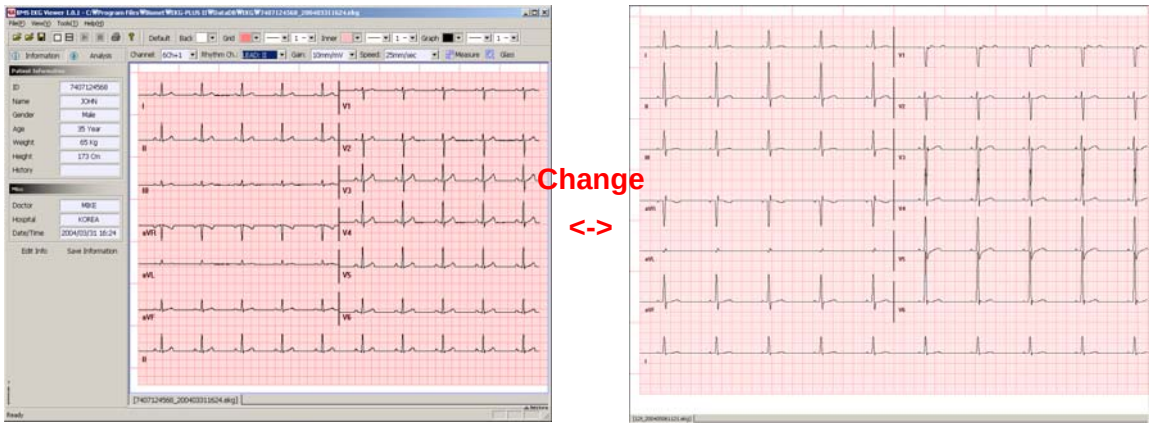
This is status bar to display each state.

(6) Information & Analysis Window

This is to display input information from EKG device and the result of analysis.

(7) EKG Graphic Data Display Window

This is to display the EKG graph. If you see the graph in the full screen mode, double click the left button of mouse. And press the 'ESC' key to return of original screen mode. The below tab is to display opened file name.

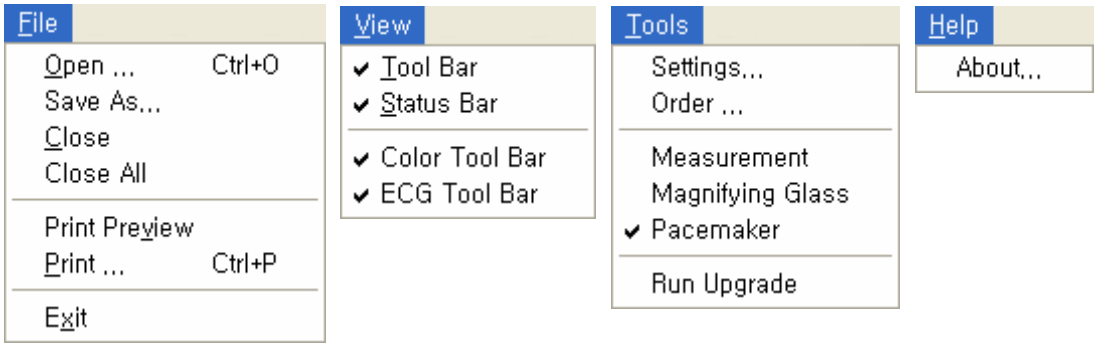


(8) EKG Beat Parameter Display Window

This is to display the beat parameter of EKG data. If you hide this window, press the 'Minimize' button. And if you display this window again, press the 'Restore' button.

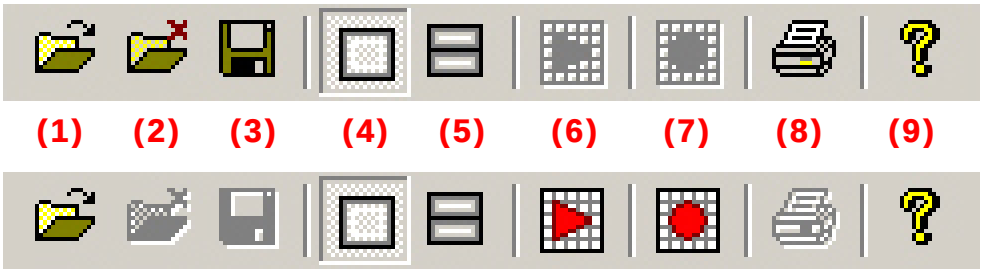
2. Menu composition and description

This is menu bar of 'EKG Viewer' Program. There are 'File', 'View', 'Tools' and 'Help' menu.



3. Tool bar composition and description

This is tool bar of 'EKG Viewer' Program. There are 'File Open', 'File Close', 'File Save', '1 Screen Display', '2 Screen Display', 'Monitoring Mode', 'Recording Mode', 'Print' and 'Help' Function.



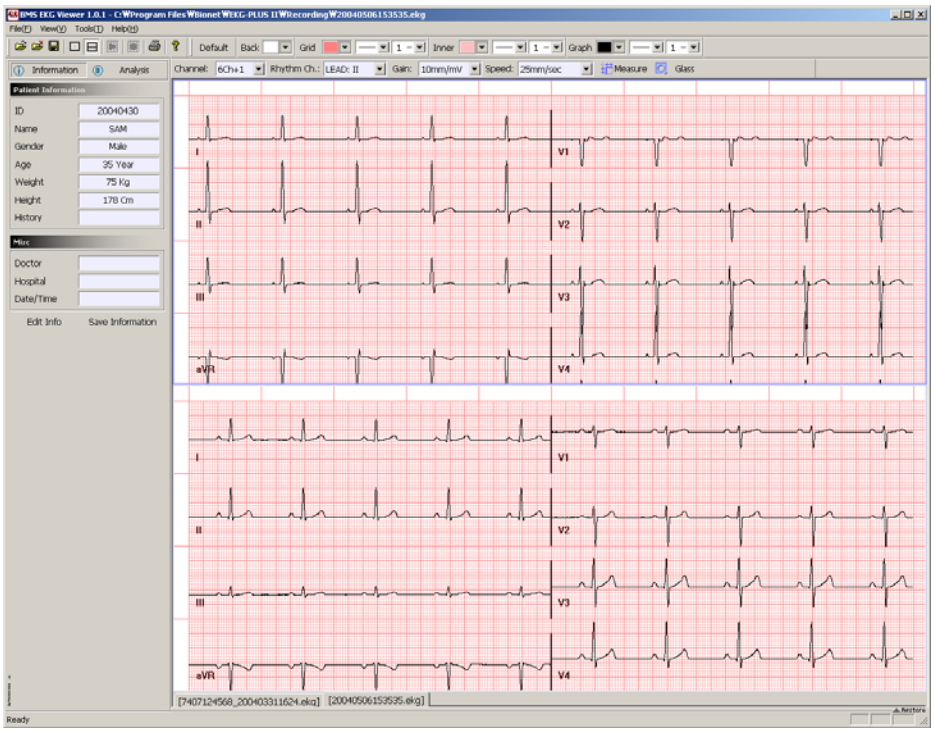
(1) File Open : Select the EKG file and open it.

(2) File Close : Close the file which is open.

(3) File Save : Change this open file to JPEG file and save.

(4) 1 Record Display : Change the EKG display to display a single record.

(6) 2 Record Display : Change the EKG display screen to display two records. This is useful to compare two different EKGs.



(6) Monitoring Mode : This monitors and displays the EKG signal of the connected device.

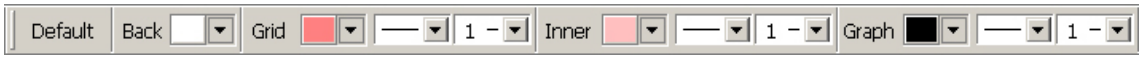
(7) Recording Mode : This records the EKG signal and saves the file under the [Recording] folder using a file name based on the present time.

(8) Print : This prints the EKG graph or other inspection information.

(9) Help : It displays program information.

4. Color bar composition and description

You can choose grid or graph color which is most convenient for you and select how line thickness appears on monitor using this bar.



(1) (2) (3) (4) (5)

(1) Default Style : You can change all into default style.

(2) Background Color : You can setup back ground color of chart paper on monitor.

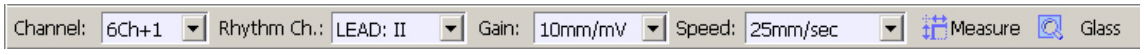
(3) Main Grid Style : You can choose color or line thickness for main grid.

(4) Inner Grid Style : You can choose color or line thickness for inner grid.

(5) Graph Style : You can choose color or line thickness for EKG graph

5. EKG bar composition and description

This is EKG bar to change the EKG graph viewer control.



(1) (2) (3) (4) (5) (6)

(1) Channel : This is the function to set up the channel form. Four types of channel forms are provided: 3ch+1rhy, 6ch+1rhy, 12ch rhy and beat report.

(2) Rhythm Ch : This is the function to select the rhythm lead. This rhythm lead in 3CH, 6CH, the Rhythm Lead is recorded for 10 seconds on the bottom of the printing form, it becomes the standard for other channels.

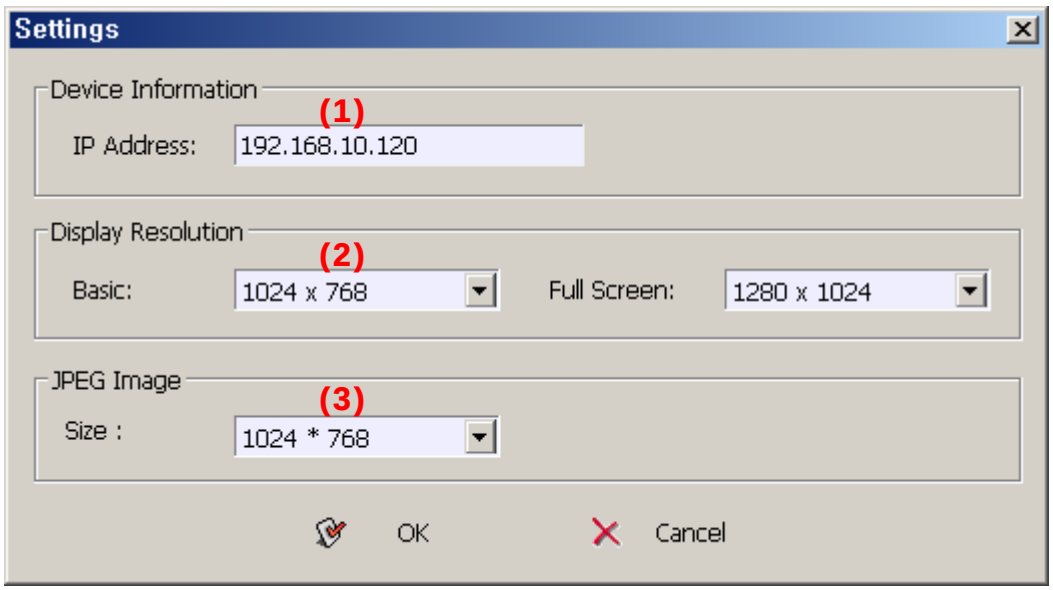
(3) Gain : This is the function used to adjust the sensitivity. There are four choices, auto, 5mm/mV, 10mm/mV, and 20mm/mV.

(4) Speed : This is the function used to adjust the signal width. Three values, 12.5 mm/s, 25 mm/s, and 50 mm/s are available for adjustment.

(5) Measure : This is the function used to measure the width or height of EKG graph data.

(6) Glass : This is the function used to magnify a part of EKG graph data.

6. Setting dialog composition and description



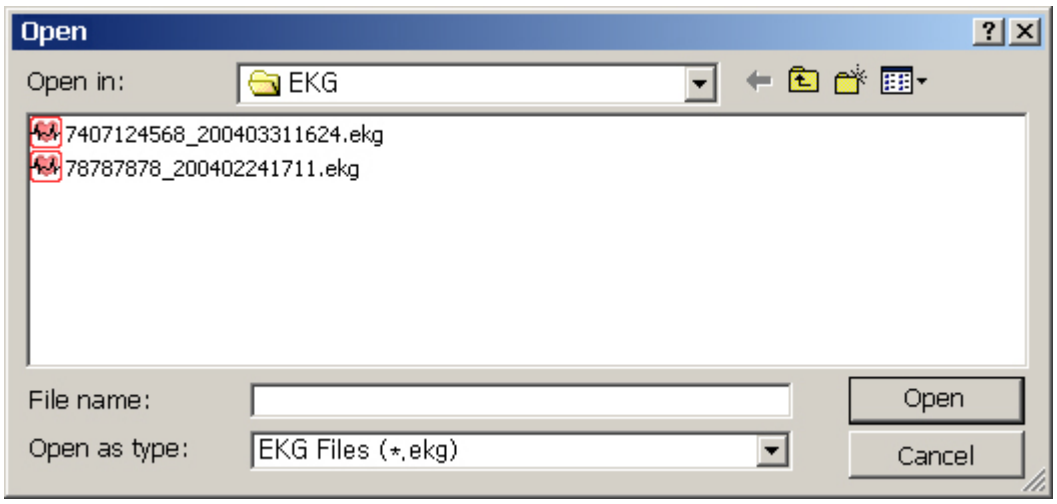
(1) Device Information : This is the function used to set IP address of connected device. You can use it in monitoring & recording mode.

(2) Display Resolution : This adjusts the size of the EKG graph screen.
The size of the basic signal is set at display mode and generally one stage lower resolution than monitor resolution is recommended and the size of the full screen is same as the size of the full screen mode. Generally the same provision as the monitor resolution is recommended.

(3) JPEG Image : This adjusts the size of the JPEG image.

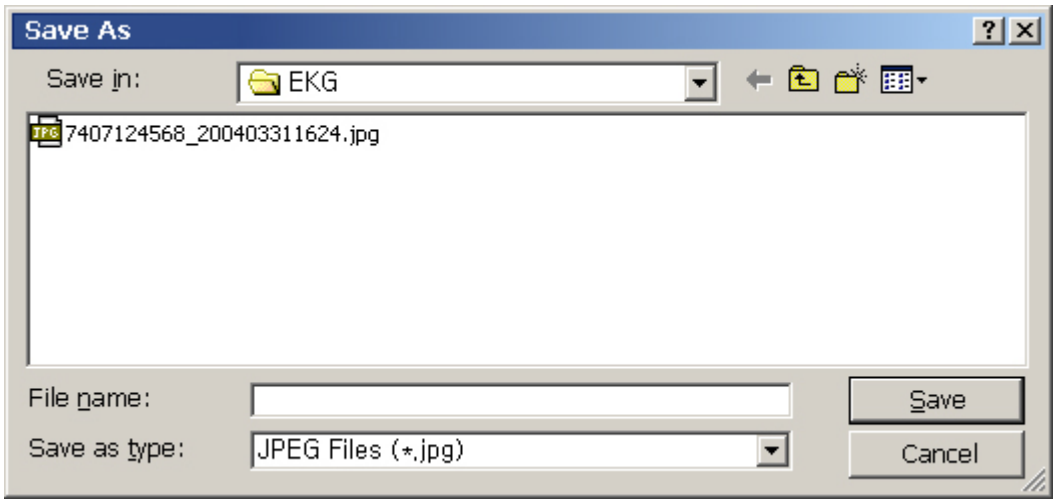
7. File open and close

This is the function used to open stored file. Below window is normal file dialogue box.



8. Save as JPEG file

Save the open file after changing into the JPEG file.

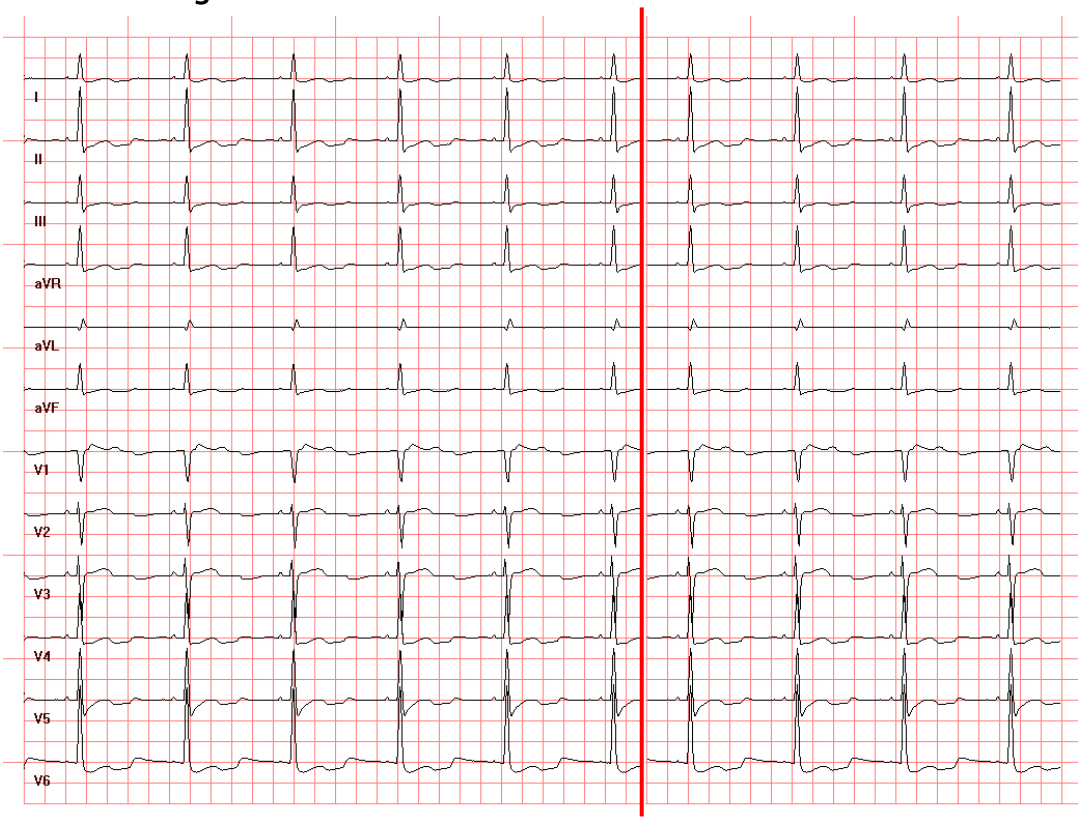


9. Connection with EKG device

If device is turned on and connected by proper cable, then clicking connection button will display a welcome message.

If it doesn't work, check the IP address of connected device. Then check LAN cable. Please note that the LAN cable must be a cross-over cable if using a direct connection rather than though a hub.

9.1 Monitoring mode

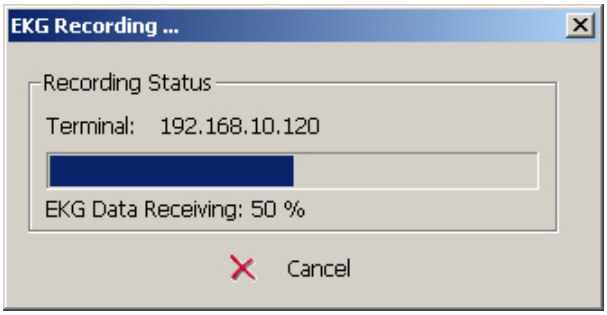


When you want to monitor EKG signals, you can click 'Monitoring mode' icon from above toolbar. Monitoring mode can be used to check if the signal is stable or not. If operator thinks the signal is fine, then start to record or analysis afterwards.

In monitoring mode, it is fixed in the 12 channel viewer mode, only sensitivity control is possible.

9.2 Recording mode

To use recording mode, click 'Recording mode' icon from above toolbar. After clicking this icon, data acquisition status will be displayed first and processing status will be displayed on process bar.



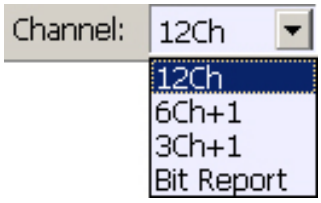
Same as in recording mode, you can see data acquisition status and processing status information as bar information. It will take about 30 seconds to get a result. If it doesn't work, you can see the error message. Then check connection with EKG device.

9.3 Sending order

Click [Order] from [Tools], then following window will be shown. Fill out all information and click [Order]. Then, the information is going to be transferred to the device. (This function is for CardioXP only.)

10. EKG graph viewer control

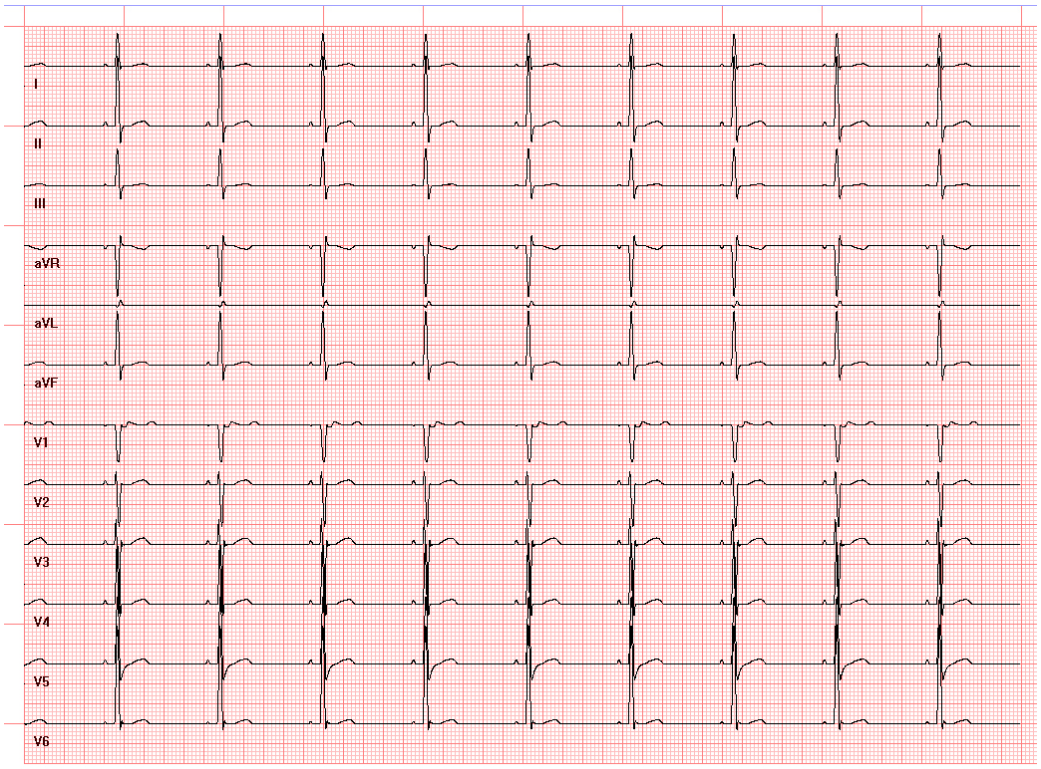
10.1 Channel



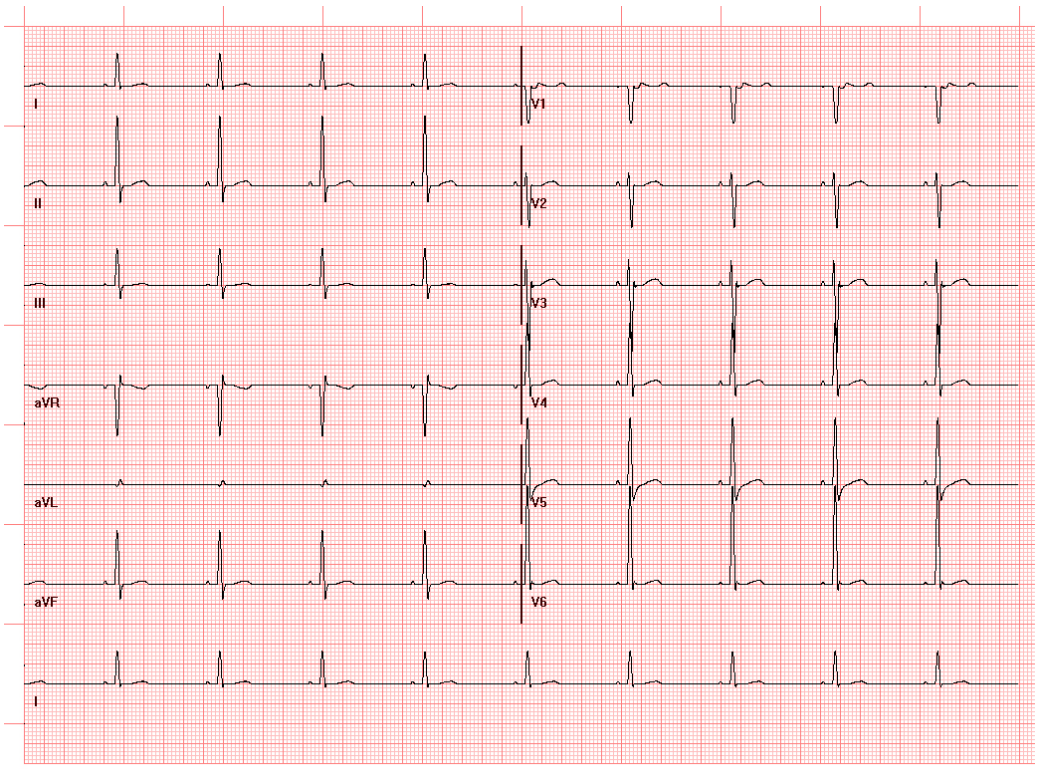
After acquiring the data or data with analysis result, 3 channel or 6 channel viewer option could be used to study more detailed waves.

This function is only avaiable when you open stored data or just acquired data from patient by recording or analysis mode. By using stored file, recorded data or analysis data, you can see 12 channel view by clicking '12Ch'. In 12 channel viewer mode, rhythm lead has no meaning. It is possible to select sensitivity and speed of data.

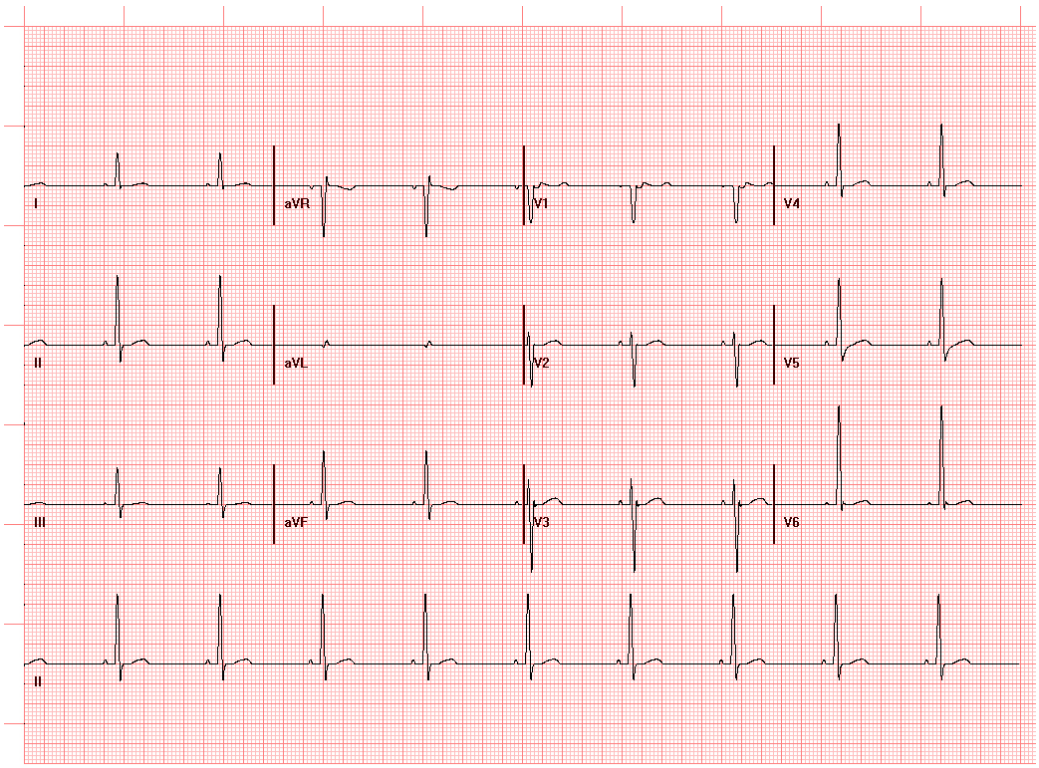
(1) 12 CH : 12 Channel



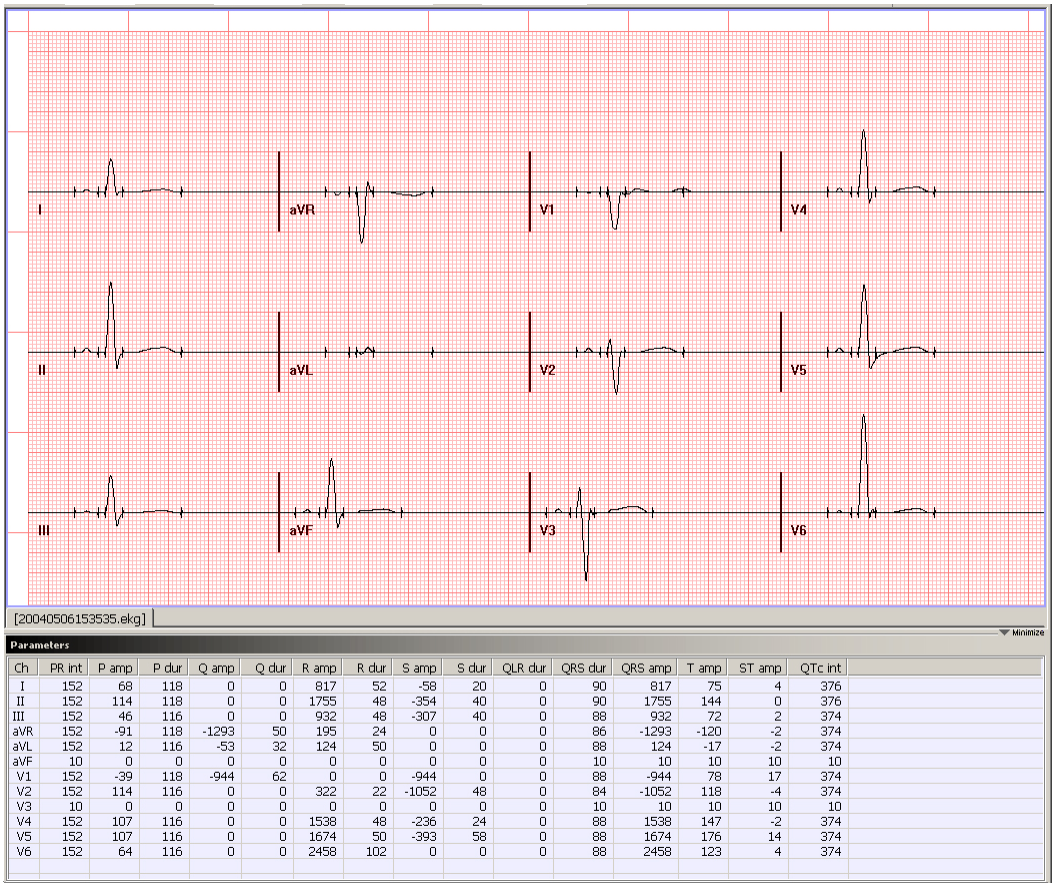
(2) 6 CH + 1 : 6 Channel + 1 Rhythm Channel



(3) 3 CH + 1 : 3 Channel + 1 Rhythm Channel



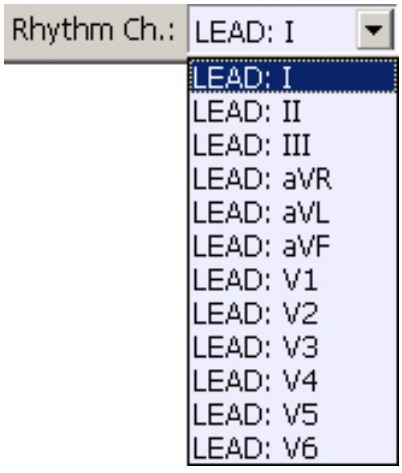
(4) Beat Report : Bit Parameter (Pon / Poff / QRSon / QRSoff / Toff)



Ch	PR int	P amp	P dur	Q amp	Q dur	R amp	R dur	S amp	S dur	QLR dur	QRS dur	QRS amp	T amp	ST amp	QTc int
I	152	68	118	0	0	817	52	-58	20	0	90	817	75	4	376
II	152	114	118	0	0	1755	48	-354	40	0	90	1755	144	0	376
III	152	46	116	0	0	932	48	-307	40	0	88	932	72	2	374
aVR	152	-91	118	-1293	50	195	24	0	0	0	86	-1293	-120	-2	374
aVL	152	12	116	-53	32	124	50	0	0	0	88	124	-17	-2	374
aVF	10	0	0	0	0	0	0	0	0	0	10	10	10	10	10
V1	152	-39	118	-944	62	0	0	-944	0	0	88	-944	78	17	374
V2	152	114	116	0	0	322	22	-1052	48	0	84	-1052	118	-4	374
V3	10	0	0	0	0	0	0	0	0	0	10	10	10	10	10
V4	152	107	116	0	0	1538	48	-236	24	0	88	1538	147	-2	374
V5	152	107	116	0	0	1674	50	-393	58	0	88	1674	176	14	374
V6	152	64	116	0	0	2458	102	0	0	0	88	2458	123	4	374

This is to display the bit parameter of EKG data. If you hide this window, press the 'Minimize' button. And if you display this window again, press the 'Restore' button.

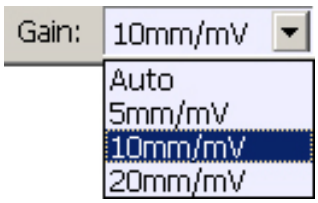
10.2 Rhythm lead



Choose any lead that you want to setup as representative rhythm lead.

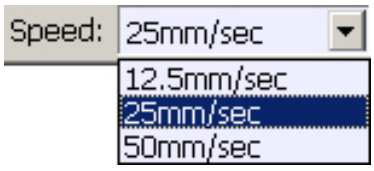
This rhythm lead in 3CH, 6CH, the Rhythm Lead is recorded for 10 seconds on the bottom of the printing form, it becomes the standard for other channels.

10.3 Sensitivity



This is the function used to adjust the sensitivity when the sensitivity is so high that the signal is overlapped with the signals of the adjacent channels, or when the sensitivity is so low that the reading is difficult. There are four settings; auto, 5 mm/mV, 10 mm/mV, 20 mm/mV.

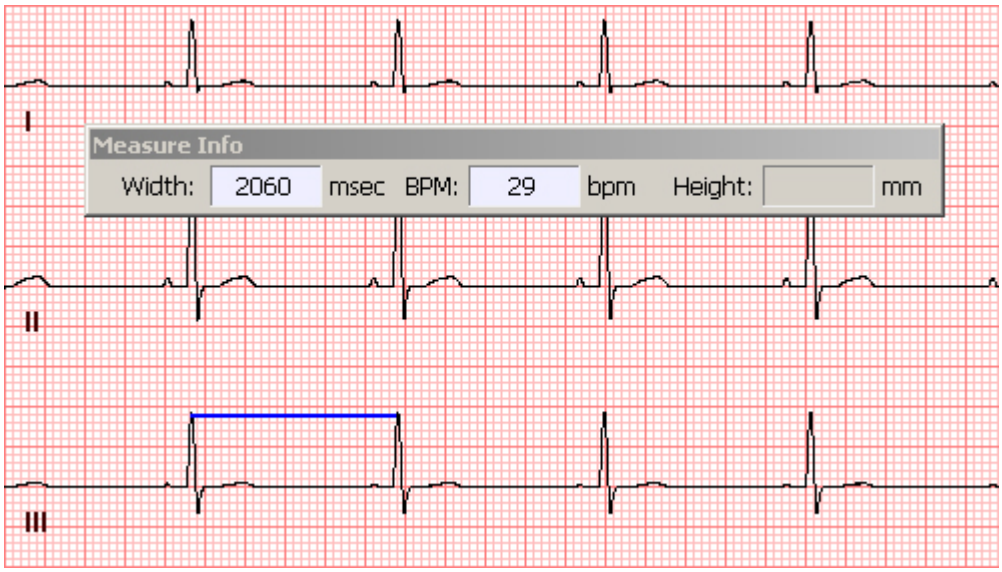
10.4 Speed



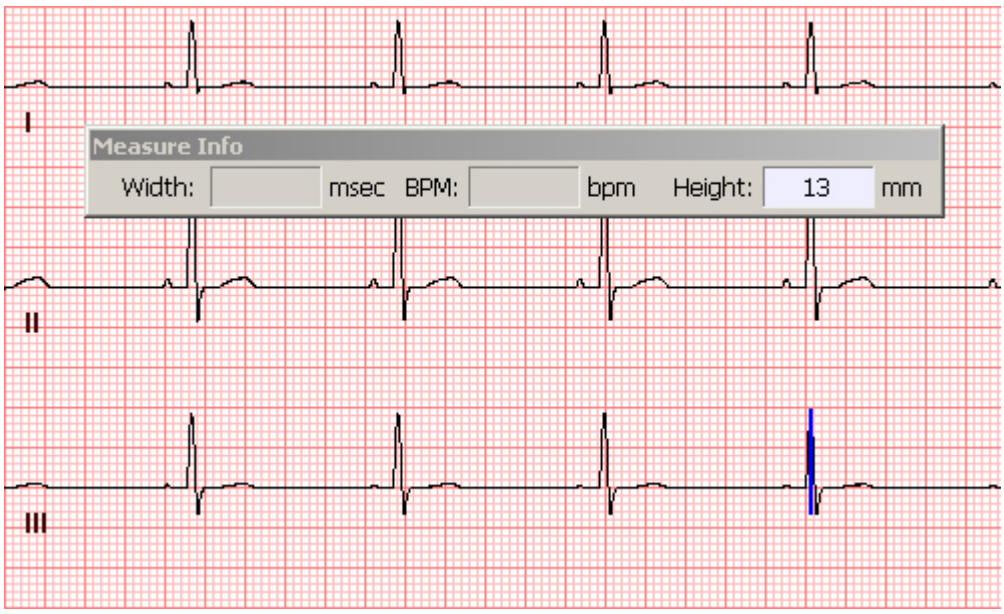
This is the function used to adjust the signal width. Three values, 12.5 mm/s, 25 mm/s, and 50 mm/s are available for adjustment. 25 mm/s means to record the signal of the electrocardiogram for a second on 25 mm. Therefore, the width of 12.5 mm/s is a half of the width of 25 mm/s, and the width of 50 mm/s becomes two times of the width of 25 mm/s. If you want to record the broad width of the signal, set up the higher value.

10.5 Measurement

This is the function used to measure the width of EKG graph data.

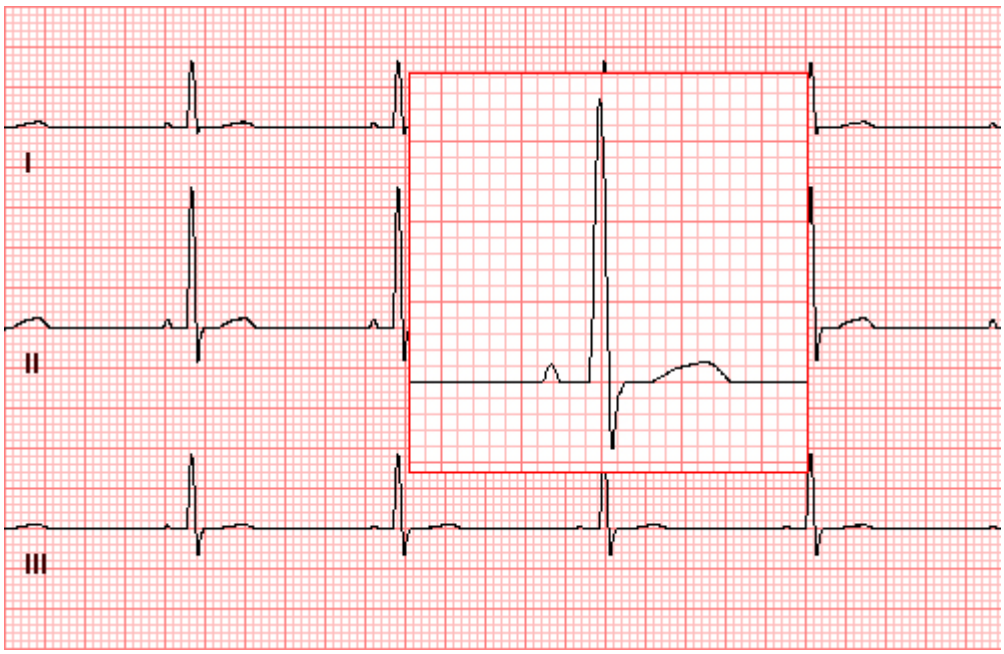


And this is the function used to measure the height of EKG graph data.



10.6 Magnifying Glass

This is the function used to magnify the part of EKG graph data.



11. Patient information management

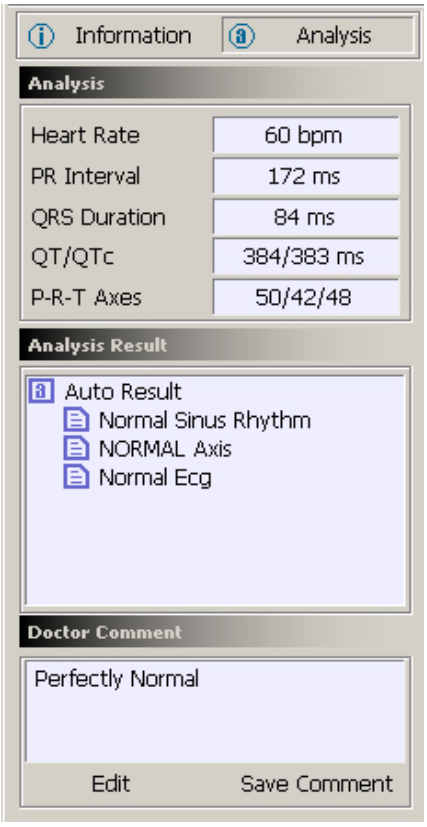
If you want to view the patient information select the 'Information' tab. And select the 'Analysis' tab to view the analysis result.

If you want to edit the data, press the 'Edit' button, and press the 'Save' button to save edited data.

If you hide this window, press the 'Minimize' button. And if you display this window again, press the 'Restore' button.

- Patient Information
- Hospital & Doctor Information
- Recorded Date & Time Information

12. Analysis result management



If you want to check and edit analysis result or add more description on it, then please click 'Analysis' tab button.

If you want to edit the data, press the 'Edit' button, and press the 'Save' button to save edited data.

(1) Analysis Parameter
- Heart Rate
- PR Interval
- QRS Duration
- QT/QTc
- P/R/T Axis

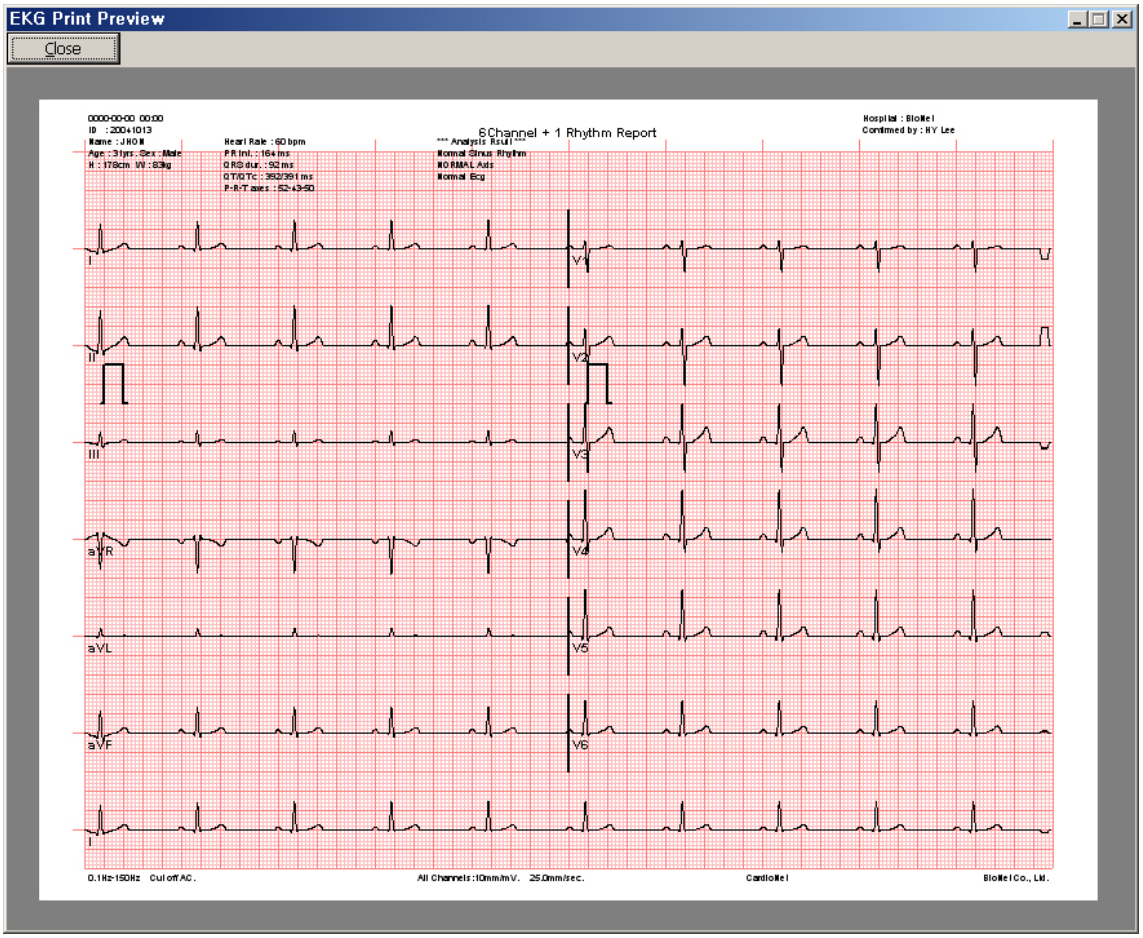
(2) Analysis Result

(3) Doctor Comment

13. Print

13.1 Print Preview

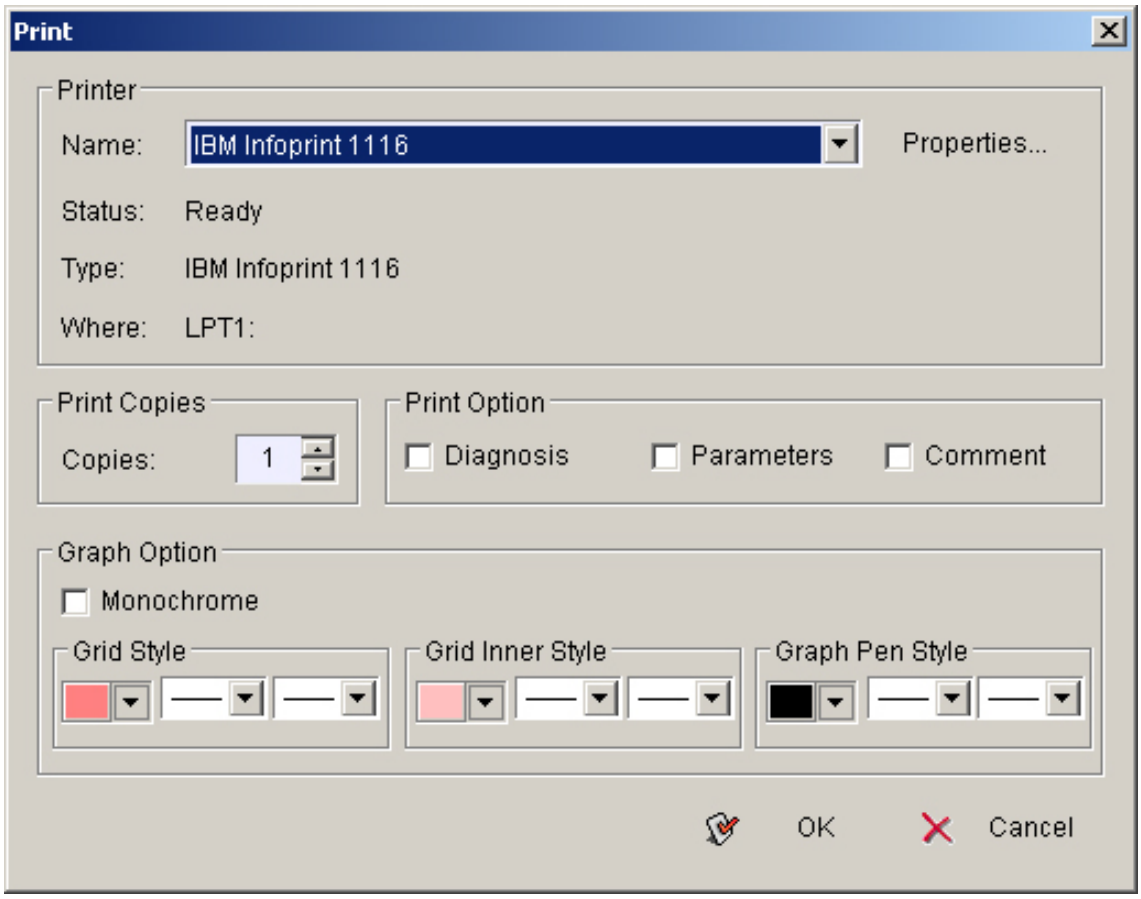
You can use this function, when you want to preview printed EKG data.



Print Option

If you want to print recorded EKG data or stored EKG data, click print icon from above toolbar.

You can use this function to set the printer or change print options. Before the printing, make sure your printer is setup as "Landscape" format.



14. Exit

You can use whenever you want to exit from the EKG-Plus II ™. However all users are strongly cautioned to be very careful not to exit without saving your data.